

### ABSTRACT

In the decoder of binary arithmetic code of the present invention, the decoding and reverse binarization of arithmetic code are separated and a large intermediate buffer is interposed. The decoding of arithmetic code is first  
5 carried out at the time of input of a stream, whereby the arithmetic code can be decoded at the maximum input bit rate of the decoder. The obtained binary symbol string is first held in the intermediate buffer, following which the reverse binarization from the binary symbol string to multivalued symbols is carried out matched to the processing of the block decoder of the next stage.